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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,623	03/22/2002	Eberhard Fritz	3993.003	4998
7590 09/01/2005		EXAMINER		
Stephan A Pendorf Pendorf & Cutliff			GILBERT, SAMUEL G	
5111 MEMORIAL HIGHWAY			ART UNIT	PAPER NUMBER
Tampa, FL 33634-7356			3736	

DATE MAILED: 09/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	10/018,623	FRITZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	Samuel G Gilbert	3736				
The MAILING DATE of this communication ар Period for Reply	ppears on the cover sheet wi	th the correspondence add	ress			
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reg - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a reply within the statutory minimum of thirt is will apply and will expire SIX (6) MON te, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this combandoned (35 U.S.C. § 133).	nmunication.			
Status						
1)⊠ Responsive to communication(s) filed on 16.	August 2004.					
2a) This action is FINAL . 2b) ▼ This	is action is non-final.					
3) Since this application is in condition for allows	ance except for formal matt	ers, prosecution as to the r	merits is			
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>23-52</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrays is/are allowed. 5) ⊠ Claim(s) <u>28-30,41 and 47</u> is/are allowed. 6) ⊠ Claim(s) <u>23-27,31-40,42-46 and 48-52</u> is/are 7) ☐ Claim(s) is/are objected to.	awn from consideration.					
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	cepted or b) objected to e drawing(s) be held in abeyar ction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFF				
11) The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action of John PTC	J-10Z.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in A ority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National S	itage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-	152)			
Paper No(s)/Mail Date <u>8/16/2004</u> .	6) Other:	* * * * * * * * * * * * * * * * * * * *	·,			

Application/Control Number: 10/018,623

Art Unit: 3736

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement filed 8/16/2004 has been considered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 23, 24, 25, 31, and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Tokita et al (4584991).

Tokita teaches treating elements –28- the treating elements are strung on wire like member –32- and plastic coating –34- retains the spacing and elements -30- provides means for containment. Further the seeds are placed in flexible elongate container –36-. The flexible tube provides a deflection site as shown in figure 1 where the tube bends. Since the tube bends over the entire length of the seeds there is inherently a deflection site between the seeds. Applicants attention is invited to figure 1 and column 4 lines 42-62.

Claim 24 – tube –36- is a hollow cylinder.

Claim 25 – tube –36- is flexible see column 4 line 61.

Claim 31 – the beads as set forth by definition would have rounded ends.

Claim 32 – the wire like member –32- is a spacer.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 36 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tokita et al. (4584991).

Claims 36 and 37 – the exact radiation source used by Tokita is not set forth.

The applicant has not set forth any criticality in the exact source to be used. It is generally accepted in the medical arts that the radiation source is generally selected based on the therapy to be preformed. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use any of the claimed sources as known radiation sources.

Claims 23-27, 31, 34-40, 42-46, and 48-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klein (5,863,284) in view of Good (5,342,283).

Claim 23 - Klein teaches a radiation source, as shown in figures 36-37A, including at least two treating elements -206- in an elongated container -198-. The container includes deflection sites -199- in figures 36A and 37A and any point along the

continuous bend in figures 36 and 37. The use of containment means for the radiation sources are not set forth. The radiation sources are only described as generally spherical radionuclides. Good teaches spherical sources including layers -18- and -20to confine the radiation emitting layer to protect, seal, identify or filter the radiation as taught in column 40 lines 48-66. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the radiation elements of good for the spheres taught by Klein in order to provide a protective containment layer/layers as taught by Good to protect, seal, identify or filter the radiation.

Claims 24 and 25 - container -198- is a hollow container of highly flexible material.

Claim 26 - the container can be an alloy of nickel-titanium, column 21 lines 27-30.

Claim 27 - the exact titanium alloy used for the container is generally an obvious matter of design choice to practitioners in the medical arts. The selection of a particular alloy of the container in the absence of showing any criticality the selection of any particular titanium alloy out of all titanium alloys is of no patentable significance. In the absence of showing any criticality the selection of any particular titanium alloy would be a matter of ordinary engineering design choice.

Claim 31 - each side of the spherical treating elements are going to be rounded.

Claim 34 - Klein teaches a radiation source, as shown in figures 36-37A, including at least two treating elements -206- in an elongated container -198-. The container includes deflection sites -199- in figures 36A and 37A and any point along the

continuous bend in figures 36 and 37. The use of containment means for the radiation sources are not set forth. The radiation sources are only described as generally spherical radionuclides. Good teaches spherical sources including layers -18- and -20to confine the radiation emitting layer to protect, seal, identify or filter the radiation as taught in column 40 lines 48-66. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the radiation elements of good for the spheres taught by Klein in order to provide a protective containment layer/layers as taught by Good to protect, seal, identify or filter the radiation. The claim includes the following, "wherein the at least two treating elements are spaced from each other and fixed to the inner wall of the container". It is well settled in the medical arts that "fixed" is a word of relative meaning; it can have many shades of meaning, from absolutely unchangeable to relatively unchangeable. Palmer v. McLamore, Minneman & Dunn (CCPA) 105 USPQ 33. It is the examiner's position that because the elements -206- of Klein fill the length of the container -198- the positioning of the elements with respect to the inner wall of the container is relatively unchangeable and therefore fixed to the inner wall of the container.

Claim 35 - Good teaches metallic containment means, column 40, line 67 through column 41, line 10.

Claims 36 and 37 - Sr-90 and Y-90 are both taught in Klein, column 21, lines 20-23.

Claim 38 - the examiner is taking element -100- as a catheter and a first lumen -108-. Further a radiation source as shown in figures 36-37A, including at least two

treating elements -206- in an elongated container -198-. The container includes deflection sites -199- in figures 36A and 37A and any point along the continuous bend in figures 36 and 37. The use of containment means for the radiation sources are not set forth. The radiation sources are only described as generally spherical radionuclides. Good teaches spherical sources including layers -18- and -20- to confine the radiation emitting layer to protect, seal, identify or filter the radiation as taught in column 40 lines 48-66. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the radiation elements of good for the spheres taught by Klein in order to provide a protective containment layer/layers as taught by Good to protect, seal, identify or filter the radiation.

Claim 39 - Sr-90 and Y-90 are both taught in Klein, column 21, lines 20-23 and container -198- is a hollow container of highly flexible material.

Claim 40 Klein teaches containment vessel -214-.

Claim 42 - a fluoroscopic device is used, see column 5 line 60 through column 6 line 5. End caps -204- can provide a fluoroscopy device.

Claims 49 and 51 - guidewire -114-.

Claims 50 and 52 - lumen -172- provides a second lumen.

Claims 43-46 and 48 - applicant's attention is invited to the embodiment of Figure 20A. The radiation source is pushed and pulled by element -114-.

Claims 32 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klein (5,863,284) in view of Good (5,342,283) as applied to claim 23 above, and further in view of Cutrer (5,997,463). The combination of Klein (5,863,284) in view of Good (5,342,283) teaches an apparatus as claimed but does not separate the treating elements with spacers. Cutrer teaches the use of spherical markers -1014- separating treatment elements -1012- elements. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the markers of Cutrer in the container of Klein between the treatment elements to gain the advantage of providing imaging markers as taught by Cutrer. Further, it is old and well known in the medical arts to use spacers as needed in a radiation source to obtain the desired radiation pattern.

Allowable Subject Matter

Claims 28-30, 41 and 47 are allowed.

Response to Arguments

Applicant's arguments filed 8/16/2004 have been fully considered but they are not persuasive. The applicant argues that Tokita does not teach or suggest a radiation source for endovascular treatment. The only language present in the rejected claims directed to endovascular use is in the form of intended use statements, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed

invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963). It is the examiners position that radiation source -28- is capable of being used in the cardiovascular system inside a catheter system possibly in a guidewire lumen. The source -28- is sufficiently flexible to be passed through such a catheter.

The applicant argues that the carriers -12- and -14- would not be suitable for endovascular radiation treatment. It is the examiner's position that only portion of Tokita et al required to meet the claim language is element -28- which is clearly capable of being used in an endovascular system.

On page 12, the applicant argues that Tokita does not teach an element that is equivalent to the elongated container and points to element -34- as being a mere coating. It is the examiner's position as previously pointed out that element -36- is a container while element -34- was a means for containment. Element -34- clearly contains the radioactive sleeves -30-.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US Patent 6506145 teaches a related delivery device which could be used in place of Klein. Applicant's attention is invited to figure 4 and 5B.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel G Gilbert whose telephone number is 703-308-3553. The examiner can normally be reached on M-F 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on 703-308-3130. The fax phone number for the organization where this application or proceeding is assigned is 703-308-0758.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

Primary Examiner

Art Unit 3736

sgg